



SWARC NEWS

Meeting Notes

The November meeting was held on November 5, 2018 at the American Legion Post 116. This was our Thanksgiving and Christmas dinner meeting and it was good. We had ham by Chef Mike with club members bringing the side dishes. We had plenty to eat and it was all good. Thank you all.

Mike, K4MWG called the meeting to order at 7 pm and Bernie, N4BAJ led us in the pledge. Brian, KK4BK talked about the problems with the repeater. At the current time Danny has had to disable the control and we are running on a bare repeater. The elevator for going up the tower is down so there is no way to get up the tower to repair the repeater. The club voted to donate \$880 to Danny to assist in any repairs as needed. The club has two tables at JARSFEST which is on the 18th of November. Al, WA4TCJ gave a report on name tag sales. Brian renewed the club call sign and at the same time he made himself the custodian of the call. Field Day for the SWARC club 2018. The

club ran as a 9A station and made over 700 contacts. Check the December issue of QST for scores. Program ideas are needed for the months of January, March, and July present your ideas to Brian or Mike. The club shack will be just that. We will be getting a 10 x 12 (approx.) shed to replace one that is currently on site. The one on site is set to be removed on December 1, 2018 at 9 am. Be sure to show up and help out. Ron, K4AAA will be starting a TECH class January 15th to run for about 3 weeks. These will be virtual class and will be held on Tuesday and Thursday 7:30 to 8:30pm with testing to be held on February 3rd at 2pm at the Harnett fire station. Public Service website is HPSNC.org or check RARS.org. The 50/50 drawing was won by Greg Gabry.

The next meeting will be December 3rd at the American Legion Post. This is our party night and the dinner will consist of hors d'oeuvres and a lot of good fellowship. Start time will be 6 pm.

NET Report

No NET Report has been submitted there is nothing to report other than NETs were held.

Our NET Whip is working on the problem. Please we ask that all net reports be sent to Joe at

draftin_driver3226@yahoo.com

Joe did comment that only one or two net controls were turning in the net reports. Please send your reports to Joe.

A big thank you to Joe, KM4YTF for stepping up.

Joe, KM4YTF is on the lookout for new net control operators. If interested please contact Joe, KM4YTF.

**South Wake Amateur Radio Club Treasurer Report
October 2018**

Club Addition and Reduction Activity

Additions

50/50	33.00	cash	50/50 at meeting
Meal	105.00	cash	collection for meal
Dues	30.00	check #210	Bernard Jones (N4BAJ)
Dues	30.00	check #7111	Andy Grubbs (KN4EVB)
Dues	30.00	check #1080	Richard Akelewicz (KI4UZI)
Dues	30.00	check #1204	Nancy Butterfield (KM4KUT)
Dues	30.00	check #2592	Grant Bennett (AA4GB)
Dues	30.00	check #3744	JP Keon (AB4PP)
Dues	30.00	check #4297	Scott Wilkinson (KJ4TUC)
Dues	35.00	check #788	Larry (NC4LR) and Julie (KT4JR) Royster
Dues	30.00	check #5076	Peter Perniciaro (KM4QDX)
Dues	35.00	cash	Hargrove (KE4RUN) and Jessica (KN4LGV) Davis
Dues	35.00	cash	Ryan (K4OKI) and Tonya (KE4ARE) Sheppard
Dues	30.00	cash	Glenn Taylor (NC4KG)
Dues	30.00	cash	Carl Rasmussen (KM4GDU)
Dues	30.00	check #133	James Nearing (KJ4UBH)

Total Additions 573.00

Reductions

Meal cost	121.00	cash	reimbursed David Sosnin (N4TTN) for pizza
Cups/Plates	55.00	cash	reimbursed Michael Gaither (K4MWG)
Raffle Prizes- December	571.77	check #1668	reimbursed Michael Ramsey (KD4OKR)

Total Reductions 747.77

RBC Bank Account Activity

Balance as of 10/01/2018	4749.53		
Addition	573.00		
Reduction	747.77		

**Balance as of
11/05/2018** 4574.76

Christine Fernandini KJ4AEO 11/05/2018

Memership Report

Ryan, NC4RA informed us that we had 112 members at the end of the fiscal year. This means that we owed Danny \$1,120.00

Howdy All,

The 2018-2019 membership dues are now due. Please send a check made out to SWARC for \$30.00 to the PO Box on the application or mail to me direct or bring it with you to the next club meeting.

Thank You

***Ryan Avery NC4RA
1635 Oak Grove Church Road
Angier, NC 27501***

Public Service

The South Wake ARC has been asked by the city of Fuquay Varina to provide support for its upcoming parade on December 2. The Parade kicks off at 3:00 pm and has a route approximately 1-mile long.

We will need 6 operators on the street with handhelds as well as a mobile rig or base station setup to act as a net control. Operators should plan on arriving around 1:30 to setup frequencies, test radio coms and get location assignments and instructions.

Please contact Mike Gaither (Gator) at president@southwakearc.com or on the 145.210 repeater if you are interested in helping.

*Thanks
Brian - KK4BK*

Charlie Davis, WA3UTC, and Fred Benson, NC4FB are planning to conduct a free Intro to Antennas class for Technician licensees. The class is restricted to a maximum of (15) Technician licensee 16 years old or older. Due to physical space limitations no license classes other than Technician or observers can be accommodated. Preregistration is required (no walk-ins) using the link directly below.

<http://ars.nc4fb.org/Tech-Intro-Antenna-Class/registration.php>

The class will be conducted in the Cary Area EMS training room located at 107 Medcon Court, Cary, NC 27511 from 0900-1500 on Saturday December 8, 2018. The objective of the class is to provide Technician licensees with the knowledge and "hands on" skills to better understand and utilize amateur radio antennas.

CLASS SYLLABUS

- Part 1 Brief History of Antennas***
- Part 2 How Antennas Radiate***
- Part 3 Key Antenna Characteristics***
- Part 4 Antenna Impedance Matching Techniques***
- Part 5 Purpose and Use of Antenna Analyzers***
- Part 6 Purpose & Examples of Antenna Modeling***
- Part 7 How to profile Antennas***
- Part 8 Discussion of Various Types of Antennas***

We would appreciate it if you would announce the class to SWARC club members.

73.

Fred

Fred Benson

NC4FB

<https://nc4fb.org>

Vice President

A word about Mesh Networks.

I ask if anyone had a background on Mesh Networks in our last meeting. Seems that everyone had about as much info as I did. So, I visited some old friends - - Google and YouTube.

I was under the impression that as HAMS, we somehow hooked up our radios to a wireless router. In reality. the router "IS" the transmitter and receiver.

The statements below are taken from <http://www.broadband-hamnet.org/>

"A Mesh Net is a high speed, self-discovering, self-configuring, fault tolerant, wireless computer network that can run for days from a fully charged car battery, or indefinitely with the addition of a modest solar array or other supplemental power source.

In its current form it is built using the Linksys WRT54G/GL/GS wireless routers and operates on channels 1-6 of the 2.4GHz ISM band, which overlaps with the upper portion of the 13cm amateur radio band.

Other platforms and bands include several types of Ubiquiti equipment in the 900MHz, 2.4GHz and 5.7GHz band.

Additional features let signals come in on one band and leave on another without additional configuration.

All mesh nodes on all bands exchange data so long as they are within range.

The focus is on emergency communications.”

You can also get more details from the following 42-minute YouTube video.

<https://youtu.be/fkl5Nbnz24Y>

I have one of these Linksys wireless routers and thinking of building one. Let me know if you are interested in trying to hook them together sometime at a meeting – unless you live in Apex or Holly Springs. It is Line of Sight after all...

KK4BK

BOARD OF DIRECTORS

Appointed Positions

President

Mike Gaither – K4MWG

Vice President

Brian Knox – KK4BK

Secretary

Joe Pittman - KM4YTF

Treasurer

Christy Fernandini - KJ4AEO

Member-At-Large

Al Crawford – WA4TCJ

Member-At-Large

David Sosnin – N4TTN

Member-At-Large

Richard Akelewicz – KI4UZI

Membership Chair

Ryan Avery , NC4RA

NET MANAGER

Joe - KM4YTF

Special Events Director

Gino Fernandini –KI4YXO

Public Service Director

David Krum – NW3U

SWARC Mission Statement

South Wake ARC's primary purpose is to further the Amateur Radio Service through programs, activities, and education, in order to promote the radio knowledge, fraternalism and individual operating efficiency of our members. Further, it shall be our purpose to support the welfare of our community through public service including radio communications for emergency situations and public events, and through providing information, training, and assistance to individuals or organizations with an interest in the Amateur Radio Service.

LINKS *(if you have other links you want added then send them to me)*

PRN

A Wide Area Digital Amateur Radio Network www.ncprn.net

GigaParts

www.gigaparts.com

QRZ

www.qrz.com

Ham Radio Outlet HRO

www.hamradio.com

Raleigh Amateur Radio Society RARS

www.rars.org

Johnson Amateur Radio Society JARS

www.jars..net

South Wake Amateur Radio Club SWARC

www.southwakearc.com

Pictures from last meeting









FCC Rejects 2004 AMSAT Petition to Reconsider Applying Orbital Debris Rules to Ham Satellites

11/21/2018

The FCC has rejected a *Petition for Reconsideration* that AMSAT filed 14 years ago, seeking to exempt Amateur Radio satellites from the FCC's satellite orbital debris mitigation requirements. The Commission took the opportunity in a ***Notice of Proposed Rulemaking and Order on Reconsideration***, released on November 19, that revisits its orbital debris rules for the first time since their adoption in 2004. Among other things, AMSAT had argued at the time of its *Petition* that applying the orbital debris requirements to Amateur Radio satellites would be cost prohibitive, and that the FCC had not indicated what constitutes an acceptable orbital debris mitigation plan. Acknowledging that time has made some of AMSAT's arguments moot, the FCC said the costs involved with modifications to comply with post-mission disposal requirements "are justified when balanced against the public interest in mitigating orbital debris." The FCC said it determined that closer adherence to the disposal methods described in the rules was "warranted in order to limit the growth of orbital debris" in low-Earth orbit (LEO).

"In any event, in the years since the debris mitigation rules were adopted, and notwithstanding any costs imposed by FCC regulations, well over 150 small satellites have been authorized, with at least 20 of those considered amateur satellites," the FCC said in its November 15 *Order on Reconsideration*. "It appears that, to the extent that any costs have been incurred, the main contributor to costs for amateur and similar LEO missions has to do with the availability of launches to appropriate orbits."

The FCC also said that in the years since the FCC issued its *Orbital Debris Order*, "numerous licensees, including amateur satellites operating in LEO, have successfully satisfied our orbital debris mitigation requirements."

Broadcaster Jamie Dupree, NS3T, Receives Radio & Television Correspondents' Association Career Achievement Award

11/21/2018

The Radio & TV Correspondents' Association (**RTCA**) has honored Cox Media Group Senior Washington Correspondent Jamie Dupree, NS3T, with its 2018 Career Achievement Award for Distinguished Reporting on Congress. Dupree received the award during the RTCA annual dinner earlier this month, and the presentation was **broadcast** nationwide on C-SPAN2.

The Career Achievement Award for Distinguished Reporting on Congress honors a Capitol Hill broadcaster who represents career achievement and dedication to Congressional coverage, recognizing "rare, exceptional careers and signifies the admiration of the many broadcasters who follow behind and benefit from the work of the recipient," RTCA said on its website.

Dupree's ability to speak was severely impaired in 2016 by a rare disorder, putting his radio broadcasting career on hold. A **technological solution** returned his voice to the airwaves, however. As the 54-year-old contestant and Potomac Valley Radio Club member explained in a **blog post** last June, a Scottish company, CereProc, sifted through years of Dupree's archived audio and built a voice for him — which he calls "Jamie Dupree 2.0" — that allows him to file radio reports again in a computer-generated voice. Dupree has been a radio broadcaster since 1983.

